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JC20 Rec'd PCT/PTO

07 AUG 2001

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August 7, 2001

BOX PCT

Commissioner for Patents
Washington, D.C. 20231

PCT/NZ00/00010
-filed February 10, 2000

Re: Application of Nicholas Bernard BODY, Felix Anton Harold COLLINS and Anthony David SMITH
IMPROVEMENTS IN OR RELATING TO CONTROL AND/OR MONITORING SYSTEMS
Assignee: **CARDAX INT'L LIMITED**
Our Ref: Q65785

Dear Sir:

The following documents and fees are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. § 371 and in accordance with Chapter II of the Patent Cooperation Treaty:

☒ a Preliminary Amendment

The Declaration and Power of Attorney and Assignment will be submitted at a later date.

It is assumed that copies of the International Application, the International Search Report, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by § 371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned can easily provide them upon request.

Applicant claims benefit of small entity status in accordance with 37 CFR § 1.27.

The Government filing fee is calculated as follows (**Small Entity fees apply**):

Total claims	10	-	20	=		x	\$9.00	=	\$0.00
Independent claims	1	-	3	=		x	\$40.00	=	\$0.00
Base Fee									\$500.00

TOTAL FEE

\$500.00

A check for the statutory filing fee of \$500.00 is attached. You are also directed and authorized to charge or credit any difference or overpayment to Deposit Account No. 19-4880. The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.492 which may be required during the entire pendency of the application to Deposit Account No. 19-4880. A duplicate copy of this transmittal letter is attached.

Priority is claimed from February 11, 1999 based on New Zealand Application No. 334139.

Respectfully submitted,

Robert J. Seas, Jr.

Registration No. 21,092

RJS/amt

PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Nicholas Bernard BODY, et al.

Appln. No.: PCT/NZ00/00010

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: August 07, 2001

For: IMPROVEMENTS IN OR RELATING TO CONTROL AND/OR MONITORING
SYSTEMS

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please enter the following amended claims:

3. An access control device as claimed in claim 1 where in the electronic identification means includes a key pad.
4. An access control device as claimed in claim 1 wherein the audio communications device is in the form of an intercom.
5. An access control device as claimed in claim 1 wherein the audio communications device includes the ability to play pre-stored audio clips.
6. An access control device as claimed in claim 1 wherein the data from the electronic identification means and audio communications device is in a format that can be transmitted from the access control device over a single communications cable.
7. An access control device as claimed in claim 1 which can be activated or controlled by a remote operator.

AMENDMENT

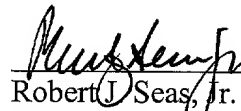
Attorney Docket No. Q65785

8. An access control device as claimed in claim 1 when the audio communications device is bi-directional.
9. A control/monitoring system which incorporates an access control device as claimed in claim 1.
10. A method of installing a control/monitoring system characterised by the step of installing an access control device as claimed in claim 1.

REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,



Robert J. Seas, Jr.
Registration No. 21,092

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Date: August 7, 2001

AMENDMENT
Attorney Docket No. Q65785

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

The claims are amended as follows:

3. An access control device as claimed in ~~either claim 1 or claim 2~~ where in the electronic identification means includes a key pad.
4. An access control device as claimed in ~~any one of claims 1 to 3~~ claim 1 wherein the audio communications device is in the form of an intercom.
5. An access control device as claimed in ~~any one of claims 1 to 4~~ claim 1 wherein the audio communications device includes the ability to play pre-stored audio clips.
6. An access control device as claimed in ~~any one of claims 1 to 5~~ claim 1 wherein the data from the electronic identification means and audio communications device is in a format that can be transmitted from the access control device over a single communications cable.
7. An access control device as claimed in ~~any one of claims 1 to 6~~ claim 1 which can be activated or controlled by a remote operator.
8. An access control device as claimed in ~~any one of claims 1 to 7~~ claim 1 when the audio communications device is bi-directional.
9. A control/monitoring system which incorporates an access control device as claimed in ~~any one of claims 1 to 8~~ claim 1.
10. A method of installing a control/monitoring system characterised by the step of installing an access control device as claimed in ~~any one of claims 1 to 8~~ claim 1.

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Davit device

5 The present invention relates to a davit device, which is arranged suspended over an associated boat on board a ship or vessel, comprising one or a couple of horizontally telescopically displaceable davit arm(s) for movement of the boat from a parking position to a launch position, and vice versa, including hoisting devices for lowering and hoisting of the boat.

10 According to known methods, many practical advantages are gained by arranging the davit device suspended at a height above the deck of the ship and the associated boat, i.e. suspended over and in its entirety at a height above the boat. Thereby, the davit device can be placed on the
15 ship without requiring much space.

In particular, it is an advantage to arrange the davit device at a height substantially above the deck of the ship, so that it is possible to secure a relatively free deck space under the davit device. Thereby, deck space is
20 freed. When the boat takes up its parking position, one can, for example, ensure relatively free passage for people at a level under the davit device, or under the boat itself, respectively, in those cases where this will be relevant.

25 However, with known embodiments of a davit device of the above mentioned type, it is common to arrange the hoisting devices, i.e. the winch itself and associated

hoisting equipment, stationary on the deck of the ship or stationary at a certain height above the deck of the ship, such that the hoisting devices are easily accessible for manual operation from the deck of the ship.

5 However, such a manual, easily operated arrangement takes up considerable space on the deck area and, in addition, complicates the handling of the boat when it is launched or taken in. In such an arrangement, the hoisting devices must generally be guided in synchrony with the
10 telescopic movements of the davit device. To be more precise, the pulling in and taking out of the hoisting line is guided in step with the telescopic movements of the davit device during launching and hoisting in of the boat, respectively, i.e. during horizontal movement of the boat
15 with respect to the ship. In other words, during the telescopic pushing out and pushing in, respectively, of the davit arm(s), one must provide an equivalent lengthwise compensation in the hoisting line itself and then with a full weight load from the boat in the hoisting line.

20 One aims with the present invention, to avoid the above mentioned complications.

 The davit device according to the invention is characterised in that the hoisting devices are securely fastened to the radially, innermost, axially extendable
25 telescope part of the davit arm/davit arms, by way of one, or a set of, carrier arms which can be moved in a groove in a stationary secured telescope part.

 Thus, it is possible to simplify the control of the different movements, which the boat will be subjected to,
30 by moving the hoisting device together with the innermost, axially extendable telescope part of the davit arm/davit arms. Thereby, one can, in a safe and controlled way, displace both the boat and the hoisting device horizontally - by way of one simple telescopic davit arm, by way of a
35 pair of telescopic davit arms, respectively, and thus hoist and lower the boat with regard to the ship with controlled

movements of the hoisting line, independent of the movements of the davit arm/arms.

Further features will become apparent from the subsequent description with reference to the enclosed
5 drawings, which show two relevant examples of embodiments of the use of the davit device in connection with a working boat and a lifeboat respectively, in which:

Fig. 1 shows a single davit arm according to the invention in a first embodiment in connection with a single wire
10 hoisting device for handling of a working boat, which is shown in side view, with unbroken lines in a launching position and shown with broken lines in a parking position.

Fig. 2 shows the davit arm viewed from below and with certain parts shown in horizontal section.

15 Fig. 3 shows the davit device in section, shown partly in side view and partly in vertical section.

Fig. 4 shows a cross section of the davit device.

Figs. 5 and 6 show the davit device separately in the parking position and launching position, respectively, of
20 the boat.

Fig. 7 shows, in side view, a davit device according to the invention in another embodiment in connection with a double-wire hoisting device for handling of a lifeboat, which is shown in a parking position.

25 Fig. 8 shows, in side view, the same as is shown in fig 7, but shown in launching position.

Fig 9 shows, in an end view, the same as is shown in fig. 7, but with certain parts shown in section.

Fig. 10 shows, partly in plane view and partly in
30 section, the same as is shown in fig. 7, including the lifeboat.

Fig. 11 shows the same as is shown in fig. 10, without the lifeboat.

Figs. 12 and 13 show, in perspective and partly in section, a section of the ship with associated davit device in parking and launching position, respectively.

According to a first embodiment example, as is shown in figs. 1-6, a davit device 20 is shown with one single davit arm 21. A single-wire hoisting device 22 is used for handling of, i.e. for hoisting and lowering, respectively, a boat 23 of the type working boat or so called MOB-boat (man-overboard-boat).

The davit device 20 according to the invention is shown in form of a continuous unit of davit arm 21 and hoisting device 22. The continuous unit is shown in a way that is not space demanding, in a suspended position underneath an overhanging deck or a similar roof-forming carrier construction 24 onboard a ship 25.

The davit arm 21 is comprised of a radially innermost telescope part 21a, which can be moved axially with respect to a radially outermost telescope part 21b. The telescope part 21b is shown secured directly to the overhanging deck or similar roof-forming carrier construction 24.

The davit arm 21 with associated hoisting device 22 is shown in the drawings suspended at a substantial height over the ship's 25 deck 26, which lies below, so that the space under the davit device 20 is easier to access for free passage.

The hoisting device 22 is secured directly to the radially innermost telescope part 21a by way of a couple of carrier arms 27, 28 (see figs. 1 and 3), which run through the downward opening slot 29 (see figs. 4-6) in the radially outermost telescope part 21b.

The hoisting device 22 is comprised of a hydraulically driven hoisting winch 30 with associated single running hoisting wire 31. The hoisting wire 31 (see figs. 5 and 6) runs from the hoisting winch 30 over a first pulley 32 to a second pulley 33 by way of an intermediate pulley 34 in a tension-type shock-absorbing device 35. At 36 (see figs. 5

and 6) a support roll is shown to support the hoisting wire 31 in its position with respect to the pulleys 32, 33.

In fig. 1, the boat 23 is shown with dotted lines in parking position, resting on the deck 26 of the ship 25 by way of a horizontal keel-support 37 and a couple of vertical side-supports 38 on the side facing the ship. The side-supports 38 are equipped on top with locking bodies 39 which are pivotable, for locking of the boat in place in the parking position.

In fig. 1 the boat 23 is shown with full lines in a launching position, hanging in the hoisting-wire 31 immediately outside the outer side 25a of the ship 25, made ready for boarding from the deck 26 of the ship.

With dotted lines in fig. 1, a couple of slides 40 are shown, which in the boat's parking position are placed on the underside 23 of the boat and which in the launching position of the boat 25 (shown by the full lines) are shown rotated to a vertical position aligned with the outer side of the ship 25. Thereby, in an itself known way, the boat 23 can, during launching and hoisting respectively, be guided in a gliding facility against the slides and outer side of the ship 25, respectively, according to need. The slides 40 can rotate around a horizontal axis 41a at the outer side 25a of the ship 25, i.e. along the edge of the deck 26 of the ship 25, with the aid of individually associated corresponding hydraulic cylinders 42.

Between a bulkhead 25b of a ship and the side-supports 38, a passage 25c is shown for a person P at a level essentially underneath the davit arm 21 and the hoisting device 22.

At the edge of the deck 26 of the ship 25, a service-space for launching/pulling in of the boat is shown. Also shown is a manoeuvre valve 43 with associated hydraulic engine 44, pressure-accumulator 45 and connecting lines 46. A protective tube 47 with internal lines 47a-47d runs from the service space by way of the deck 26 and the bulkhead

25b of the ship to the overhanging deck 24 and further on by way of the flexible lines 47a-47d to the internal telescope part 21a of the davit arm 21. From the telescope part 21a, the lines 47a-47d branch off to the hoisting
5 winch 30 and to a pressure cylinder 21c respectively (not shown in detail) to the tension-type shock-absorbing device 35. A piston rod 21d, which has one end fastened to a piston (not shown) in the pressure cylinder 21c, has its opposite end fixed to the bulkhead 25b of the ship (see
10 fig. 6) in a fitting 21e.

With the help of the manoeuvre valve 43, one can in succession and each in turn:

- - hoist the boat 23 from the keel-support 37 by way of the hoisting winch 30,
- 15 • - displace the boat 23 and the hoisting device 22 horizontally by way of the pressure cylinder 21c of the davit arm 21 from a position over the deck 26 of the ship 25 to a position outside the outer side 25a of the ship, and thereafter
- 20 • - lower the boat 23, for example to the position which is shown by the full lines in fig. 1.

The above-mentioned movements can be carried out in turn and individually, i.e. in a controlled way with mutually independent movements. The vertical movements of
25 the boat are carried out from the hoisting winch 39 in the movable telescope part 21a of the davit arm 21, while the horizontal movements of the boat are carried out by pushing out and pushing in, respectively, of the movable telescope part 21a of the davit arm 21 with respect to the stationary
30 telescope part 21b of the davit arm 21, i.e. by simultaneous horizontal displacement of the boat 23 and the hoisting device 22.

After boarding the boat 23, the manoeuvre valve 43 can, with the help of in itself known components, be remote
35 controlled from the boat 23 for further lowering of the boat to the sea surface. In the same way, the boat 23 can, in a subsequent phase after use of the boat, after hooking

a securing hook to the hoisting line 31, be hoisted onboard again with the equivalent remote control of the manoeuvre valve 43.

The davit arm 21 is shown in figs. 1 and 5 in an axially fully extended condition and in figs. 3 and 6, the davit arm 21 is shown in fully pulled in, i.e. retracted position.

In figs. 5 and 6, flexible lines are shown, i.e. pressure-oil lines 47a-47d in the opposite outer positions of the davit arm 21. The pressure-oil lines 47a-47d are supported on a rail 48, which are carried, by way of the vertical carrier-arms 48a-48c, in the outermost telescope part 21b of the davit arm 21.

The external telescope part 21b is, as it clearly can be seen in figs. 5 and 6, fitted with a series of transverse bracing plates 49, which in turn are rigidly connected to an overhanging deck or roof-forming construction 24.

According to another embodiment example, as shown in figs. 7-13, a davit device 120 is shown with a couple of mutually parallel davit arms 121, 121, which together carry and are mutually reinforced by way of an intermediate cross bar 121d. The cross bar 121d is used as a carrier body for a hoisting device 122 for handling of a boat 123 of the type lifeboat. In addition, the cross bar 121d is used as carrier body for the power unit of the hoisting device 122, etc.

The lifeboat 123 is carried, in the shown embodiment example, by the opposite ends in a double-wire hoisting line, i.e. with the aid of two separate wires 131, 131, which are handled by way of their own drum on a common winch 130.

Each of the davit arms 121 is comprised of a radially innermost telescope part 121a, which can be displaced axially with respect to a radially outermost telescope part 121b.

The radially outermost, i.e. the stationary, secured telescope part 121b, is (in a corresponding way as the stationary, secured telescope part 21b in the first embodiment example) secured to an overhanging roof-forming deck or similar carrier construction 24 onboard a ship 25 at a level considerably over the below lying deck 26 of the ship 25, which is shown.

In this embodiment example, the lifeboat 123 is shown in a parking position raised up from the deck 26, i.e. shown at a level which permits free passage for a person P on the underside of the lifeboat 123 itself. In this case, a hoisting device 122 and a corresponding power unit, including a manoeuvre valve 143 with associated hydraulic engine 144 with pressure-oil pump, pressure-accumulator 145 and connecting lines 146, are secured directly to the cross bar 121d between the two mutually parallel davit arms 121 and the innermost telescope part 121a, respectively. Thereby, a substantial area of the deck 26 of the ship 25 under the lifeboat 123 is freed.

One aim is to achieve remote control of the manoeuvre valve from any position on the deck 26 of the ship 25 by means of in itself known equipment. This results in the whole deck area underneath and nearby the lifeboat being made available for free passage, as is illustrated by a person P in figs. 7 and 9.

In fig. 8, the lifeboat 123 is shown after it is displaced sideways outwards from a parking position, as is shown in figs. 7 and 9, to a launching position outside the outer side 25b of the ship 25 by way of the davit arms 121, and thereafter, by way of the hoisting lines 131, is lowered down to boarding position, approximately aligned with the deck 26 of the ship 25.

The vertical and horizontal movements, which the lifeboat is subjected to, are carried out in a way corresponding to that of the first embodiment example.

The davit arms 121, 121, which can be displaced telescopically, are shown in an axially retracted condition and axially extended condition in fig. 12 and fig. 13, respectively.

Claims

1. A davit device (20), which is arranged suspended over an associated boat (23, 123) onboard a ship (25) or similar vessel, incorporating horizontally telescopically displaceable davit arm(s) (21; 121,121) for moving of the boat (23, 123) from a parking position to a launching position, and vice versa, and hoisting devices (22, 122) for lowering and hoisting of the boat (23, 123),
10 characterised in that
the hoisting devices (22, 122) are securely fastened to the radially innermost axially displaceable telescope part (21a; 121a, 121a) of the davit arm/davit arms (21; 121, 121), by way of one or a set of carrier arms (27, 28),
15 which are displaceable in a groove in a stationary, secured telescope part (21b; 121b, 121b).
2. The davit device in accordance with claim 1,
characterised in that
20 the power unit (144, 145) of the hoisting device (122) and the manoeuvre valve (143) is arranged in a suspended position over the associated boat (123).
3. A davit device in accordance with claim 2, in which the davit device (120) includes two mutually parallel,
25 telescopically displaceable davit arms (121) and an intermediate cross bar (121d) with a associated hoisting device (122), characterised in that
the cross bar (121d) in addition to the carrier device
30 for the hoisting device (122) form a carrier device for the power unit (144, 145) and the manoeuvre valve (143) with associated fittings.



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FIG. 4

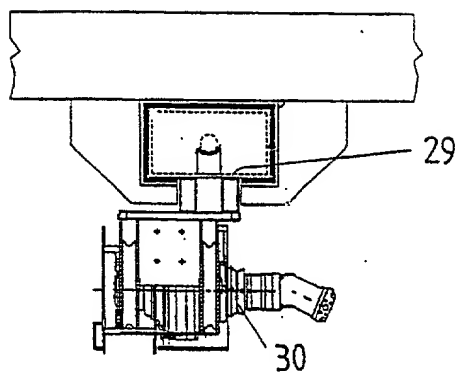
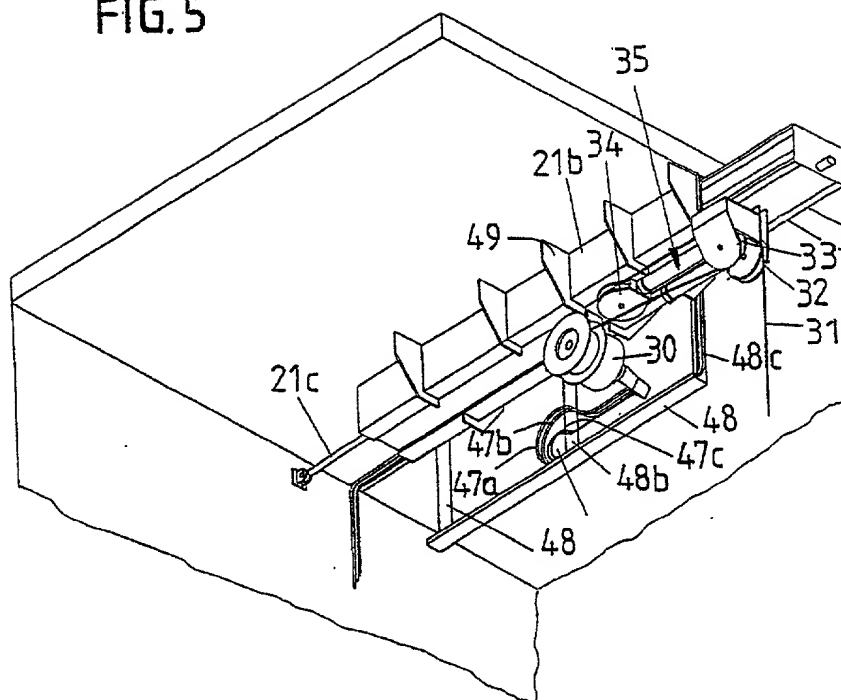
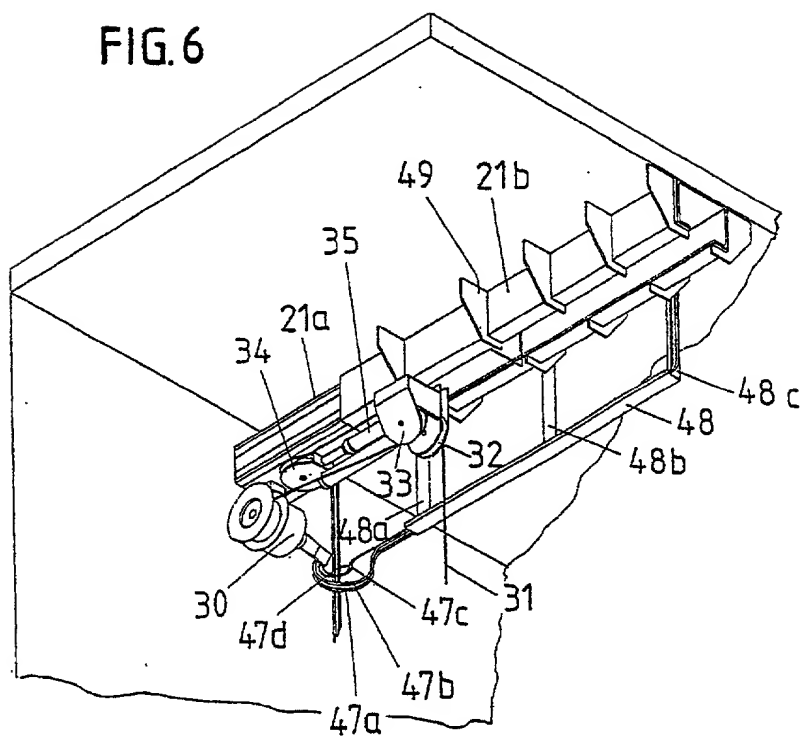


FIG. 5



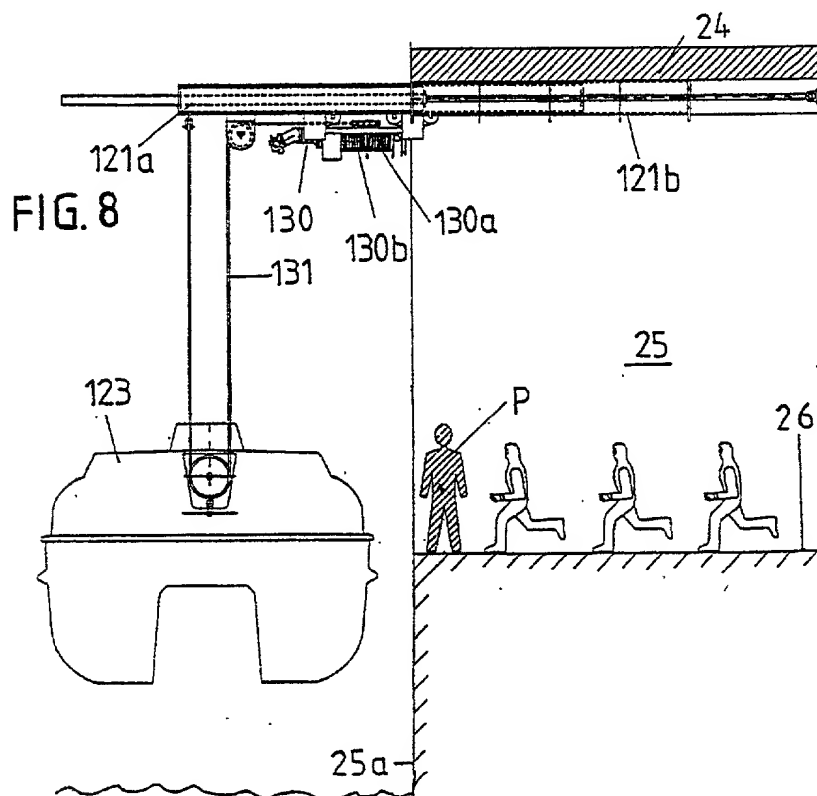
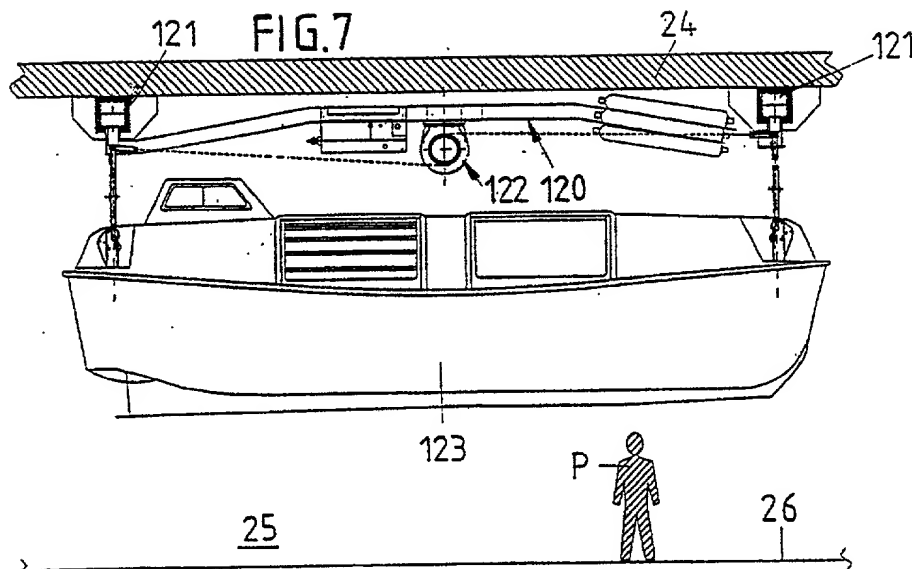
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FIG. 6



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FIG.9

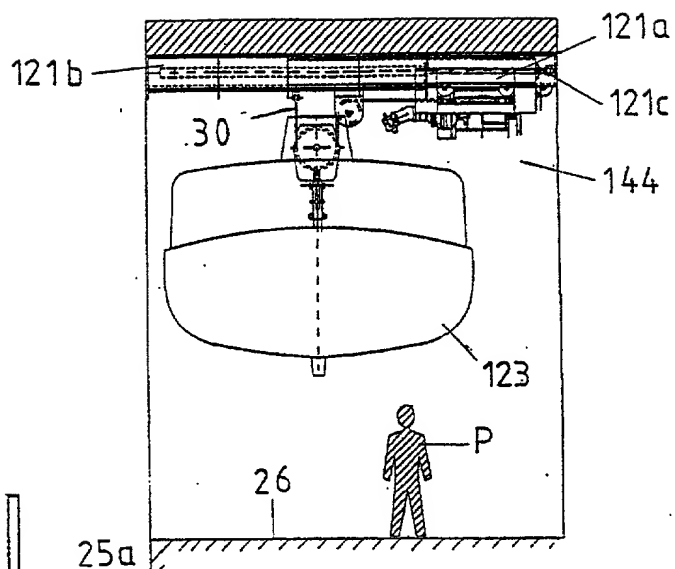
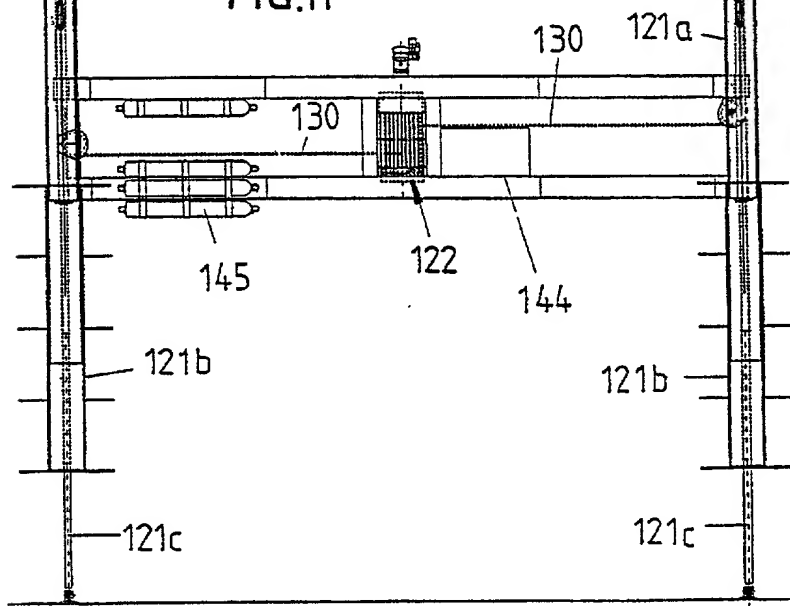
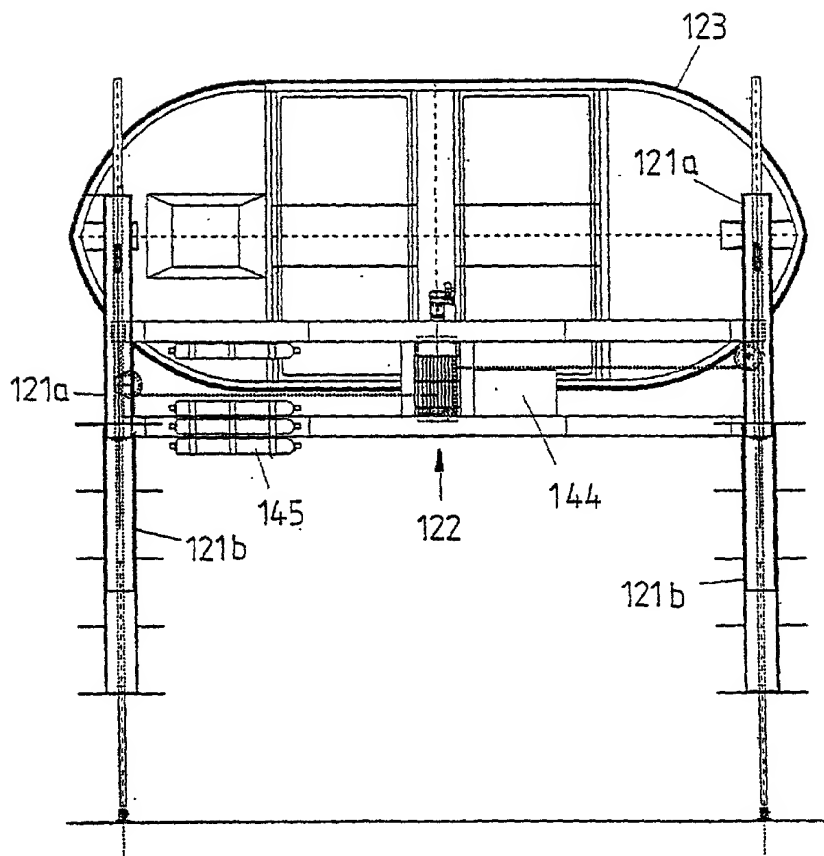


FIG.11



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FIG. 10



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FIG.12

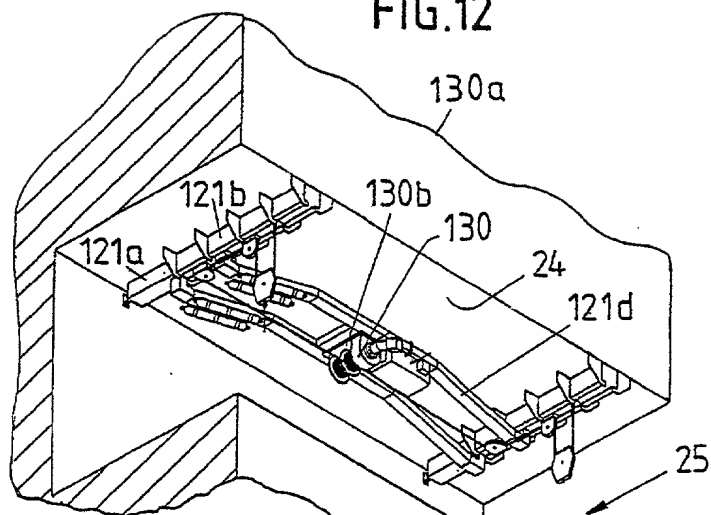
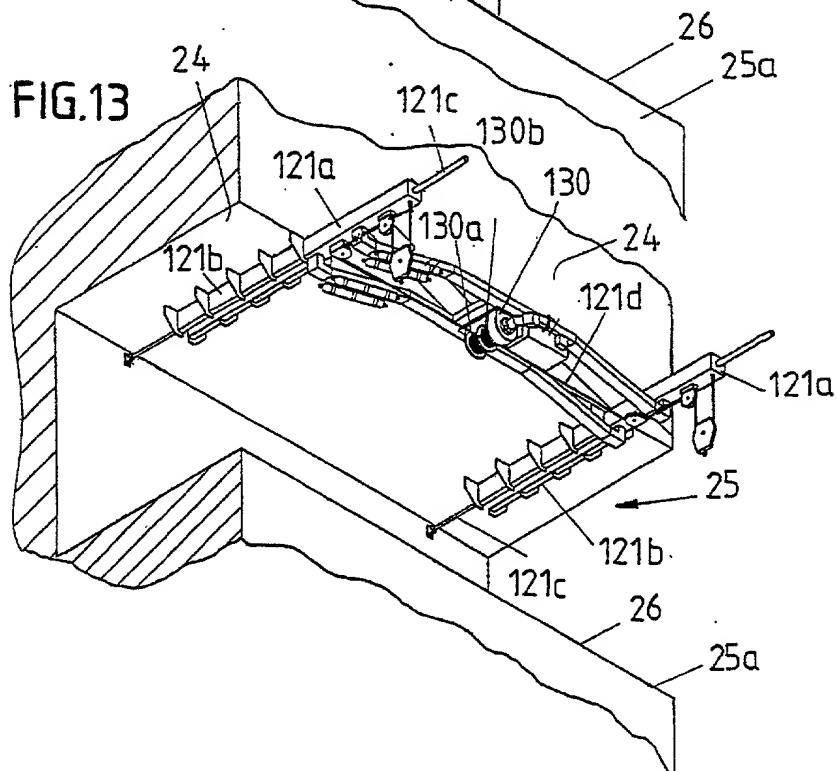


FIG.13


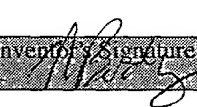
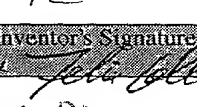


Power of Attorney: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trade Mark Office connected therewith.

John H. Mion, Reg. No. 18,879; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; Brett S. Sylvester, Reg. No. 32,765; Robert M. Masters, Reg. No. 35,603; George F. Lehnigk, Reg. No. 36,359; John T. Callahan, Reg. No. 32,607; Steven M. Gruskin, Reg. No. 36,818; Peter A. McKenna, Reg. No. 38,551 and Edward F. Kenehan, Reg. No. 28,962, my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and request that all correspondence about the application be addressed to SUGHRUE MION, PLLC, 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardise the validity of the application or any patent issued thereon.

(6) DETAILS
REQUIRED FOR
EACH
INVENTOR

Full Name of Sole Inventor <u>Anthony David Smith</u>	Inventor's Signature 	Date <u>24-7-2000</u>
Residence <u>64 Bredins Line, Marton, New Zealand 172 X</u>	Citizenship <u>A New Zealand citizen</u>	
Post Office Address		
Full Name of Second Joint Inventor, If Any <u>Nicholas Bernard Body</u>	Inventor's Signature 	Date <u>9-8-2000</u>
Residence <u>C/- 63 Wikiriwhi Crescent, Palmerston North, New Zealand</u>	Citizenship <u>A New Zealand citizen</u>	
Post Office Address		
Full Name of Third Joint Inventor, If Any <u>Felix Anton Harold Collins</u>	Inventor's Signature 	Date <u>25-7-2000</u>
Residence <u>12 Manson Street, Palmerston North, New Zealand 172 X</u>	Citizenship <u>A New Zealand citizen</u>	
Post Office Address		
Full Name of Fourth Joint Inventor, If Any	Inventor's Signature	Date
Residence	Citizenship	
Post Office Address		
Full Name of Fifth Joint Inventor, If Any	Inventor's Signature	Date
Residence	Citizenship	
Post Office Address		
Full Name of Sixth Joint Inventor, If Any	Inventor's Signature	Date
Residence	Citizenship	
Post Office Address		

UNITED STATES

PATENT APPLICATION DECLARATION AND POWER OF ATTORNEY – ORIGINAL APPLICATION

As a below named Inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name:

I verily believe I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named below) of the invention entitled

(1) TITLE OF
INVENTION

Improvements In or Relating to Control and/or Monitoring Systems

the specification of which

(2) CHECK
APPROPRIATE
BOX

(2) ☒ is attached hereto.

☐ was filed on _____ as Application No. _____
and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application under 37 CFR 1.56(a); the invention has not been patented or made the subject of a inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application; and

as to applications for patents or inventor's certificate on the invention filed in any country foreign to the United States prior to this application by me or my legal representatives or assigns,

(3) CHECK
APPROPRIATE
BOX

(3) ☐ no such application have been filed, or

☒ such applications have been filed as follows:

(4) COMPLETE
DATA
INDICATED IF
APPLICABLE

Earliest foreign application(s), if any, filed within 12 months or more prior to this application:

Country	Application Number	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claimed under 35 USC 119
New Zealand	334139	11/02/99		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No

All foreign applications, if any, filed more than 12 months prior to this application:

I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge duty to disclose material information as defined in Title 37, Code of Federation Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(5) COMPLETE
DATA
INDICATED IF
APPLICABLE

(5) _____
(Application Ser. No) (Filing date) (Status: patented, pending, abandoned)

(5) _____
(Application Ser. No) (Filing date) (Status: patented, pending, abandoned)